

309.6 - Secondary Ferrite Standards

Reference Materials RM 8480 and RM 8481, Secondary Ferrite Standards, are intended for the calibration of instruments used to measure weld metal ferrite content in accordance with American National Standards Institute / American Welding Society (ANSI/AWS) Standard A4.2 and International Organization of Standardization (ISO) Standard 8249. RM 8480 consists of a low range (8 specimens distributed in the range of 0 FN to 30 FN) and RM 8481 is the corresponding high range (8 specimens distributed in the range of 30 FN to 120 FN).

Previously issued SRMs 485 to 488, are a suite of SRMs for Austenite in Ferrite, which were produced a little over 20 years ago. They are now considered technically obsolete and are not longer suitable for their intended purpose. NIST has more recently developed other reference mixtures of austenite and ferrite, RM 8480 Secondary Ferrite Number Standard--Low Range and RM 8481 Secondary Ferrite Number Standard--High Range, which are listed below. These are in units of FN, as they were designed for magnetic response measurements of ferrite in an austenitic matrix.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit of Issue	Range
8480	Secondary Ferrite Number Standard - Low Range	10x12x20	<i>Low Range</i>
8481	Secondary Ferrite Number Standard - High Range	set (8)	<i>High Range</i>

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only